

# ***Historic Savings in Our Historic Buildings***

*From century to century how the Erlanger-Elsmere District is achieving spectacular energy savings as students learn in cherished community landmarks.*



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# District Overview

- Erlanger Elsmere Independent School District
- 2300 Students
- 7 Schools
- Focus on efficiency in all areas to maximize resources for our students
- Energy efficiency gains

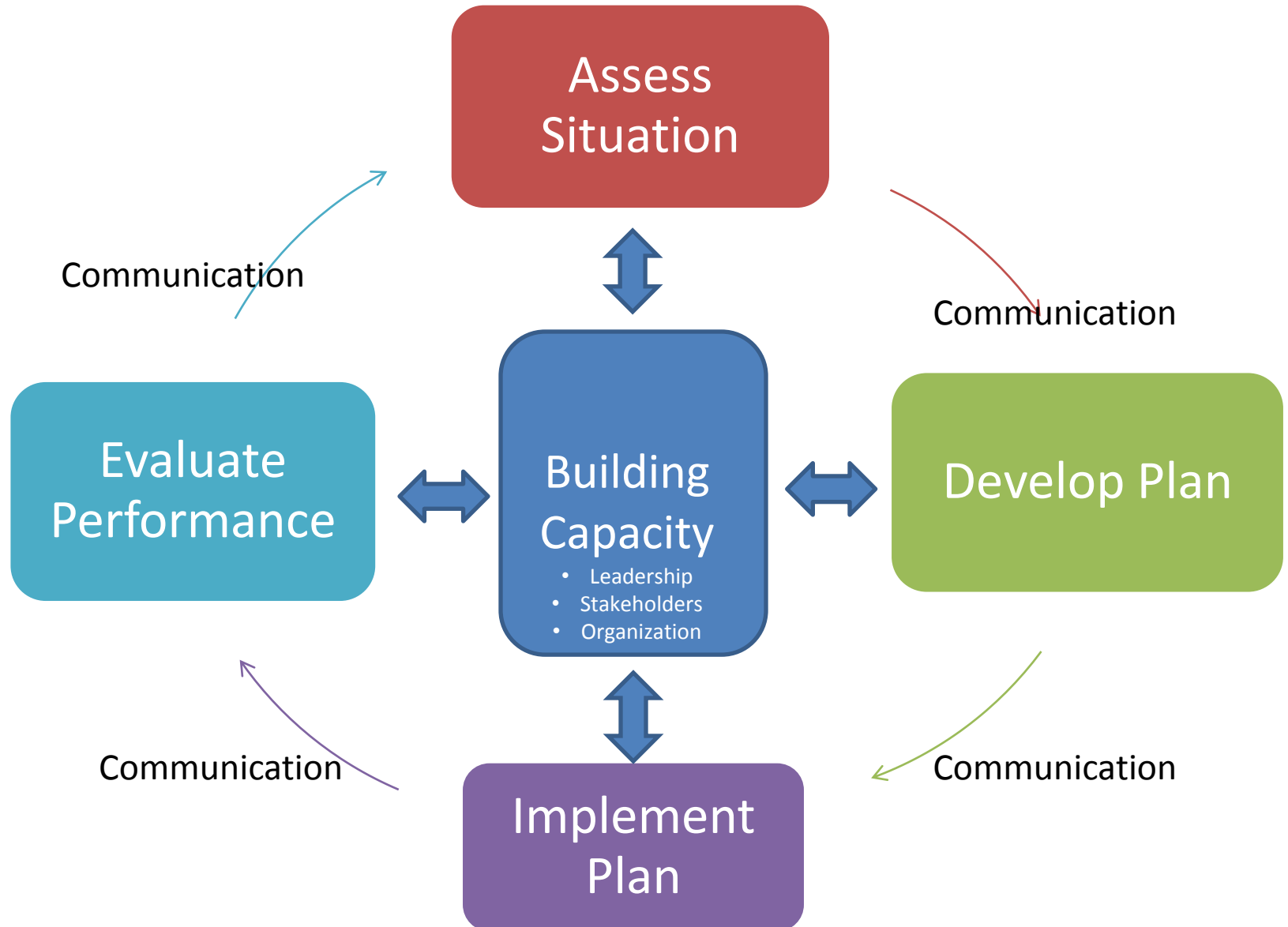


**Table 3 Dist**

Rank	District	2010 EUI	2014 EUI
1	Owen	62.5	37.9
2	Butler	42.8	38.3
3	Corbin	51.6	41.0
4	Walton-Veron	44.6	42.5
5	Scott	53.3	42.7
6	Anderson	52.3	43.4
7	Burgin	60.5	44.5
8	Oldham	45.7	44.9
9	Martin	DNR	45.2
10	Casey	49.5	45.3
11	Henry	67.7	45.4
12	Gallatin	60.0	45.6
13	Meade	48.7	45.7
14	Russell	80.5	46.0
15	Murray	47.2	46.0
16	Bullitt	53.7	46.3
17	Erlanger	56.9	46.4
18	Warren	50.7	46.6
19	Shelby	71.6	47.2



# Building Capacity and Ownership



# Clear Expectations

- Communicating Expectations and Communicating Results
- Monitoring
- Collaboration
- Continuous Improvement



# Energy Efficiency and Student Learning

- Student energy teams and energy leaders at every school
- Real World Connections
- Engaging the community
- Holding everyone accountable together





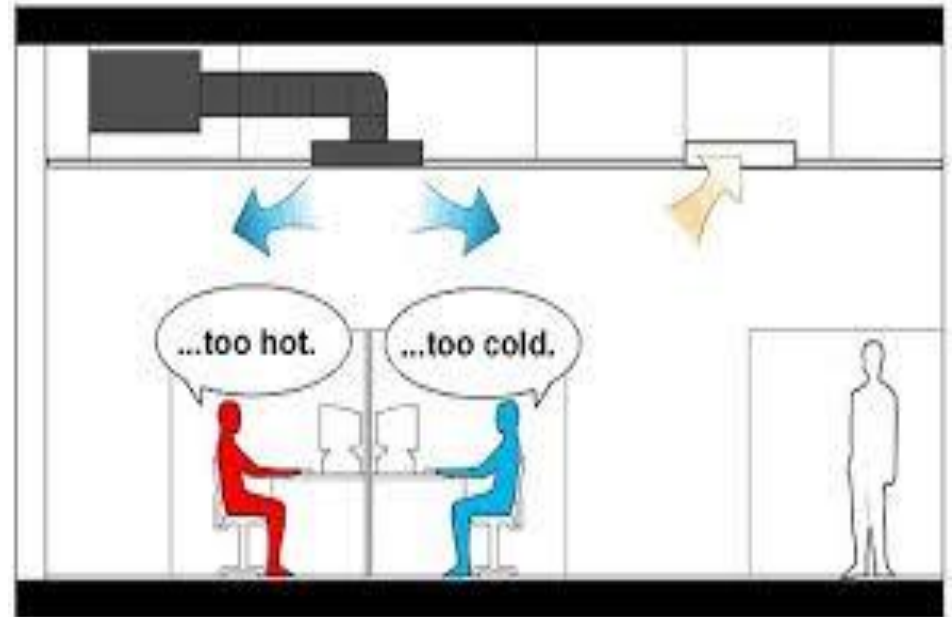
# What is “Efficiency”

- How do you define efficiency?
  - Latest and greatest vs. maximum potential
  - How can older buildings be efficient?



# Implement New Ideas

- Each District must define the line between comfort and energy



- \*Don't be afraid to TRY
- \*Tinkering isn't bad

# Continuous Improvement



- Maintaining Current Level of Performance Takes EFFORT
- Improvement cannot be static



# Highlighted Building-Miles Elementary

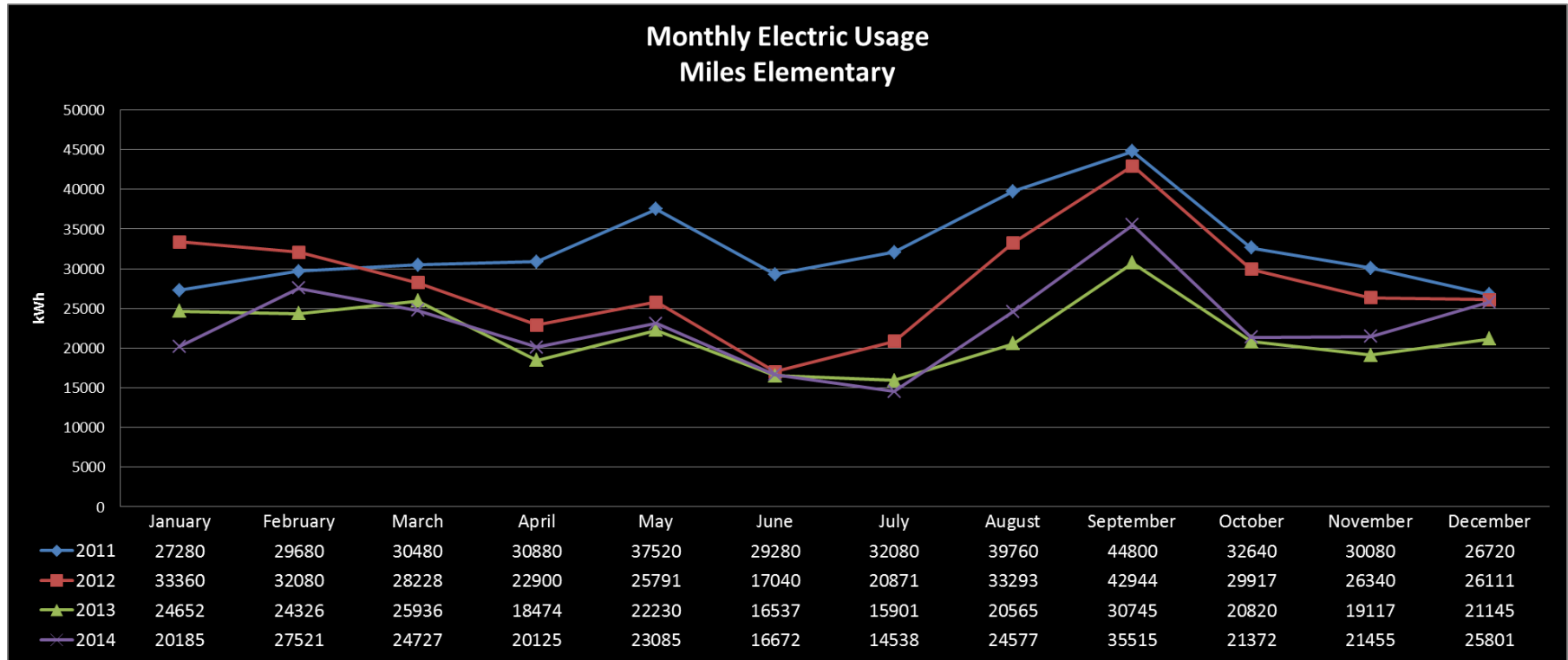
- Built in 1971
- Centralized Heating/Cooling-2 Pipe System with unit ventilators
- Original boiler still in service; newer chiller
- Implemented central plant automatic controls
- Implemented variable frequency pumping
- Installed high efficiency lighting inside and out
- Installed programmable thermostats where applicable
- Met with custodial and kitchen staff and gathered support

# The Results

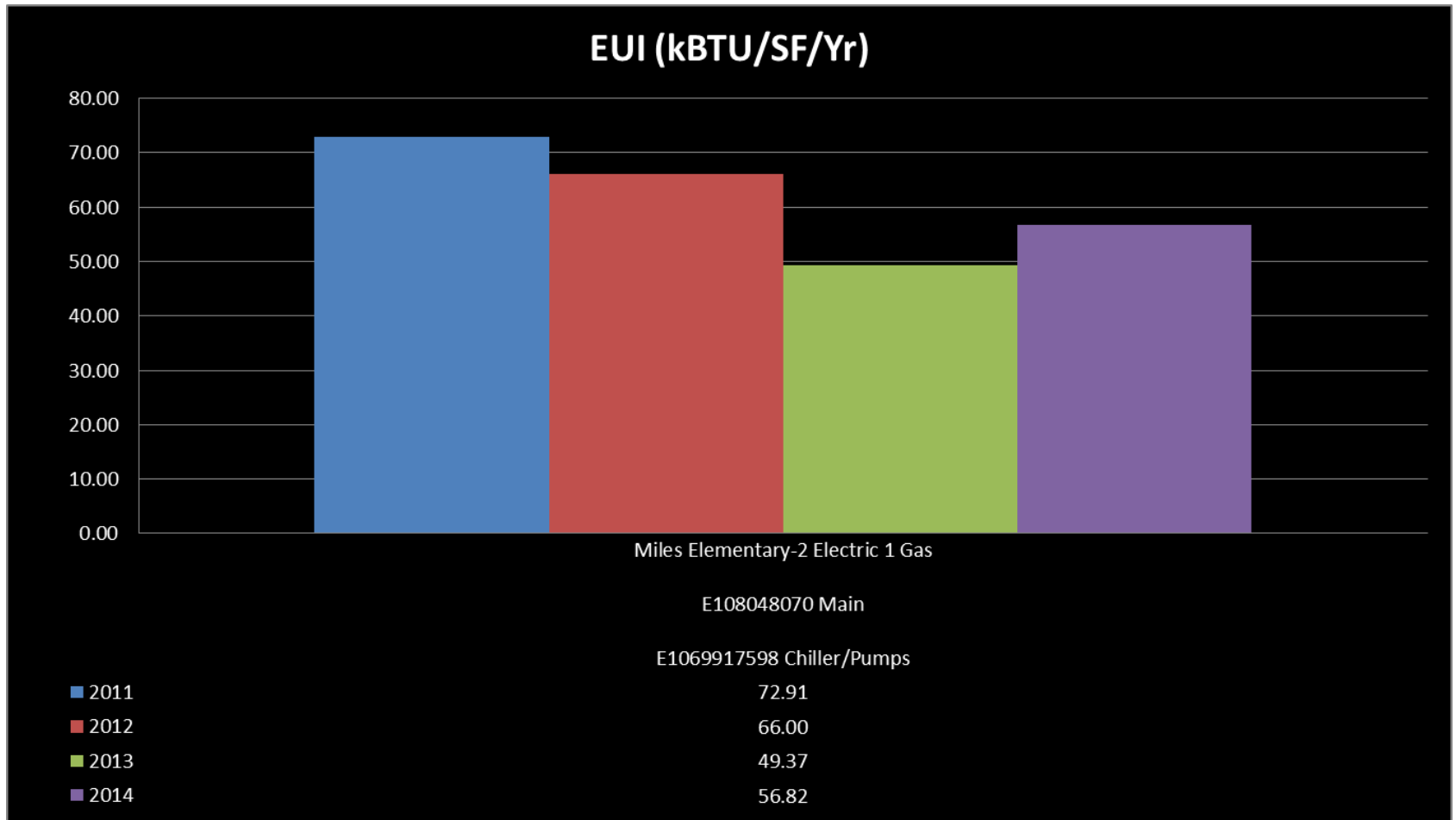
- Cost Savings Since 2011 (cumulative)
  - Actual \$33,476.81
  - Weather Normalized \$44,969.98
- kWh Reduction (cumulative)
  - 298,704
- CCF Reduction (cumulative)
  - 5,093



# The Results



# The Results



# Closing Thoughts

- Saving energy takes energy!
- Install the right personnel into the right places
- Enjoy the results





# Closing Thoughts

“I did then what I knew how to do. Now that I know better, I do better.”

— Maya Angelou



# Questions



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